

**I** **ment**

**includes varying transmissive characteristics for processing**

**n n-contiguous**

**predetermined wavelength bands of the dispersed spectrum.**

**CLPR:**

**3. An optical filter as defined in claim 2, wherein the first dispersive element and the second dispersive element comprise dispersion gratings.**

**CLPR:**

**4. An optical filter as defined in claim 2, wherein the processing element displaces selected wavelength bands in the focal plane.**

**CLPR:**

**5. An optical filter as defined in claim 4 wherein the processing element further includes means for dividing the spectrum into bands and for locally inverting wavelengths of light centered about a center wavelength within each band.**

**CLPR:**

**6. An optical filter as defined in claim 5, wherein the means for dividing the spectrum into bands and for locally inverting wavelengths of light centered about a center wavelength within each band is selected from the group consisting of an array of micro-refractive optical systems; and an array of 90 degree V-groove micro-mirrors.**